Hit List

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 6 of 6 returned.

☐ 1. Document ID: US 6351302 B1

L1: Entry 1 of 6 File: USPT Feb 26, 2002

US-PAT-NO: 6351302
DOCUMENT-IDENTIFIER: US 6351302 B1

TITLE: Analog sound track digitizer

DATE-ISSUED: February 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carlsen, II; George D.	Cardiff	CA	92007	
Vale; Ronald W	San Diego	CA	92103	

APPL-NO: 09/ 569145 [PALM]
DATE FILED: May 11, 2000

INT-CL: [07] G03 B 31/02, G11 B 7/00

US-CL-ISSUED: 352/26; 352/37, 369/125
US-CL-CURRENT: 352/26; 352/37, 369/125

FIELD-OF-SEARCH: 352/6, 352/10, 352/26, 352/29, 352/1, 352/5, 352/11, 352/27, 352/37, 369/124, 369/125, 371/36, 371/37.9, 371/64

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3915566	October 1975	Fisher	352/10
3964826	June 1976	Joseph et al.	352/10
4085296	April 1978	Keegan	179/100.3
4124784	November 1978	Johnson et al.	179/100.3
4355383	October 1982	Dolby	369/120
4577302	March 1986	Allen	369/46
4596008	June 1986	Beard	369/107
4599715	July 1986	Beard	369/124
4734903	March 1988	Shirai et al.	369/107
5231627	July 1993	Paul et al.	369/125

h e b b g e e e f e b e ch e

5237559	August 1993	Murphy et al.	369/125
5483306	January 1996	Rodriguez	354/10
5526075	June 1996	Carlsen	352/26
5543868	August 1996	Tachi	352/27
5621490	April 1997	Davis	352/79
5710752	January 1998	Seagrave et al.	369/97

ART-UNIT: 2851

PRIMARY-EXAMINER: Adams; Russell

ASSISTANT-EXAMINER: Fuller; Rodney

ATTY-AGENT-FIRM: Logan II; Charles C.

ABSTRACT:

The system eliminates the noise, rumble and hiss from any standard 35 mm analog optical sound track. By simply feeding the film through the projector sound head in a normal manner the system automatically converts the analog optical sound tracks to digital quality. No special storing of digital data on film is required and no special digital decoder equipment is needed. The system produces noise-free sound, increased frequency response, expanded dynamic range and clarity of the dialogue. Film studios will no longer need to carry a double inventory of films having digital and analog sound tracks or to process the sound tracks for noise reduction.

12 Claims, 9 Drawing figures

☐ 2. Document ID: US 5870480 A

L1: Entry 2 of 6 File: USPT Feb 9, 1999

US-PAT-NO: 5870480
DOCUMENT-IDENTIFIER: US 5870480 A

TITLE: Multichannel active matrix encoder and decoder with maximum lateral separation

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Griesinger; David	Cambridge	MA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Lexicon	Bedford	MA			02

APPL-NO: 08/ 742460 [PALM]
DATE FILED: November 1, 1996

h e b b g e e e f e b e ch e

PARENT-CASE:
CROSS-REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of U.S. patent application Ser. No. 08/684,948, entitled "Multichannel Active Matrix Sound Reproduction with Maximum Lateral Separation," filed Jul. 19, 1996, now U.S. Pat. No. 5,796,844.

INT-CL: [06] H04 R 5/00

US-CL-ISSUED: 381/18; 381/22, 381/23
US-CL-CURRENT: 381/18; 381/22, 381/23

FIELD-OF-SEARCH: 381/18, 381/19, 381/20, 381/21, 381/22, 381/23

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3772479	November 1973	Hilbert	
3786193	January 1974	Tsurushima	
3798373	March 1974	Bauer	
3812295	May 1974	Bauer	
3825684	July 1974	Ite	
3829615	August 1974	Hiramatsu	
3836715	September 1974	Ite	
3934086	January 1976	Takahashi	
3944735	March 1976	Willcocks	
3959590	May 1976	Scheiber	
4027101	May 1977	DeFreitas	
4074083	February 1978	Berkovitz	
4135203	January 1979	Friedman	
4236039	November 1980	Cooper	
4361727	November 1982	Franssen et al.	
4618987	October 1986	Steinke	
4649564	March 1987	Barnett	
4704728	November 1987	Scheiber	
4862502	August 1989	Griesinger	
4891839	January 1990	Scheiber	
4955057	September 1990	Tominari	
5029216	July 1991	Jhabvala et al.	
5109419	April 1992	Griesinger	
5136650	August 1992	Griesinger	
5161197	November 1992	Griesinger	

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
335468	October 1989	EP	

h e b b g eeef e b e ch e

1112233	May 1968	DE
138267	October 1979	DE
138266	October 1989	DE
0050200	March 1982	JP
WO8909465	October 1989	WO

OTHER PUBLICATIONS

Julstrom, "A High Performance Surround Sound Process For Home Video", J. Audio Eng. Soc., vol. 35, No. 7/8, 1987, pp. 536-549.
Griesinger, David, "Practical Processors and Programs for Digital Reverberation. AES 7th International Conference", Mar., 1989, pp. 187-195.
Krokstad, Asbjern, "Electroacoustic Means of Controlling Auditorium Acoustics", Sep. 1985, pp. 1-18.
Ahnert, Wolfgang, "The Complex Simulation of Acoustical Sound Fields by the Delta Stereophony System DDS" 2418 (D-16), Nov. 1986, pp. 1-26.
Berkhout, A.J., "A Holographic Approach to Acoustic Control, J. Audio Eng. Soc.", vol. 36, No. 12, Dec., 1988.

ART-UNIT: 273

PRIMARY-EXAMINER: Isen; Forester W.

ATTY-AGENT-FIRM: Haynes and Boone, L. L. P.

ABSTRACT:

A sound reproduction system for converting stereo signals on two input channels, which may have been directionally encoded from a four or five channel original using a phase/amplitude film matrix encoder, such signals including at least one component which is directionally encoded through a phase and amplitude encoding device and at least one component that is not directionally encoded but is different in the two input channels, into signals for multiple output channels, for example center, front left, front right, side left, side right, rear left, and rear right, including decoding apparatus for enhancing the directionally encoded component of the input signals in the desired direction and reducing the strength of such signals in channels not associated with the encoded direction, while preserving both the maximum separation between the respective left and right channels and the total energy of the non-directionally encoded component of the input channels in each output channel, such that the instruments recorded on the right input channel stay on the right side of the output channels and the instruments recorded on the left stay on the left side, and the apparent loudness of all the instruments in all the output channels stays the same regardless of the direction of the directionally encoded component of the input signals; and further including circuits to improve separation in the decoder for uncorrelated left and right side inputs, to improve reproduction of apparent motion between the sides and the rear, to compensate for boost applied to signals in the front quarter of the sound field, and to limit the maximum excursion of each of the direction control signals when the other is changing.

10 Claims, 20 Drawing figures

☐ 3. Document ID: US 5796844 A

h e b b g e e e f e b e ch e

L1: Entry 3 of 6 File: USPT Aug 18, 1998

US-PAT-NO: 5796844
DOCUMENT-IDENTIFIER: US 5796844 A

TITLE: Multichannel active matrix sound reproduction with maximum lateral separation

DATE-ISSUED: August 18, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Griesinger; David H.	Cambridge	MA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Lexicon	Bedford	MA			02

APPL-NO: 08/ 684948 [PALM]
DATE FILED: July 19, 1996

INT-CL: [06] H04 S 3/00

US-CL-ISSUED: 381/18; 381/22, 381/23
US-CL-CURRENT: 381/18; 381/22, 381/23

FIELD-OF-SEARCH: 381/18, 381/19, 381/20, 381/21, 381/22, 381/23

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3626365	December 1971	Press	
3772479	November 1973	Hilbert	
3786193	January 1974	Tsurushima	
3798373	March 1974	Bauer	
3812295	May 1974	Bauer	
3825684	July 1974	Ite	
3829615	August 1974	Hiramatsu	
3836715	September 1974	Ite	
3934086	January 1976	Takahashi	
3944735	March 1976	Willcocks	
3959590	May 1976	Scheiber	
4027101	May 1977	DeFreitas	
4074083	February 1978	Berkovitz	
4135203	January 1979	Friedman	
4236039	November 1980	Cooper	
4361727	November 1982	Franssen et al.	
4618987	October 1986	Steinke	

h e b b g e e e f e b e ch e

4649564	March 1987	Barnett
4704728	November 1987	Scheiber
4862502	August 1989	Griesinger
4891839	January 1990	Scheiber
4955057	September 1990	Tominari
5029216	July 1991	Jhabvala et al.
5109419	April 1992	Griesinger
5136650	August 1992	Griesinger
5161197	November 1992	Griesinger

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
335468	October 1989	EP	
1112233	May 1968	DE	
138267	October 1979	DE	
138266	October 1989	DE	
0050200	March 1982	JP	
WO8909465	October 1989	WO	

OTHER PUBLICATIONS

Julstrom, "A High Performance Surround Sound Process For Home Video", J. Audio. Eng. Soc., vol. 35, No. 7/8, 1987, pp. 536-549.
Griesinger, David, "Practical Processors and Programs for Digital Reverberation. AES 7th International Conference", Mar., 1989, pp. 187-195.
Krokstad, Asbjern, "Electroacoustic Means of Controlling Auditorium Acoustics", Sep. 1985, pp. 1-18.
Ahnert, Wolfgang, "The Complex Simulation of Acoustical Sound Fields by the Delta Stereophony System DDS" 2418 (D-16), Nov. 1986, pp. 1-26.
Berkhout, A.J., "A Holographic Approach to Acoustic Control, J. Audio Eng. Soc.", vol. 36, No. 12, Dec., 1988.

ART-UNIT: 273

PRIMARY-EXAMINER: Isen; Forester W.

ATTY-AGENT-FIRM: Haynes and Boone, L.L.P.

ABSTRACT:

A sound reproduction system for converting stereo signals on two input channels, which may have been directionally encoded from a four or five channel original using a phase/amplitude film matrix encoder, such signals including at least one component which is directionally encoded through a phase and amplitude encoding device and at least one component that is not directionally encoded but is different in the two input channels, into signals for multiple output channels, for example center, front left, front right, side left, side right, rear left, and rear right, including decoding apparatus for enhancing the directionally encoded component of the input signals in the desired direction and reducing the strength of such signals in channels not associated with the encoded direction, while preserving both the maximum separation between the respective left and right channels and the total energy of the non-directionally encoded component of the

h e b b g e e e f e b e ch e

input channels in each output channel, such that the instruments recorded on the right input channel stay on the right side of the output channels and the instruments recorded on the left stay on the left side, and the apparent loudness of all the instruments in all the output channels stays the same regardless of the direction of the directionally encoded component of the input signals.

24 Claims, 15 Drawing figures

☐ 4. Document ID: US 5526075 A

L1: Entry 4 of 6 File: USPT Jun 11, 1996

US-PAT-NO: 5526075
DOCUMENT-IDENTIFIER: US 5526075 A

TITLE: Apparatus for reading analog sound tracks on film with circuit for averaging sound track boundaries to reduce the effect of noise

DATE-ISSUED: June 11, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Carlsen, II; George D.	Cardiff	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Digital Technology Systems of California, Inc.	Solana Beach	CA			02

APPL-NO: 08/ 192365 [PALM]
DATE FILED: February 7, 1994

PARENT-CASE:
This application is a continuation-in-part of U.S. Pat. applications Ser. Nos. 08/119,646, filed Sep. 13, 1993, now abandoned, and 08/154,878 filed Nov. 19, 1993, now abandoned both of which applications were filed in the name of the present Applicant. This application claims priority from each of the above-referenced applications and incorporates by reference each of the above-referenced applications.

INT-CL: [06] G03 B 31/02, G11 B 7/00

US-CL-ISSUED: 352/26; 352/37, 369/125
US-CL-CURRENT: 352/26; 352/37, 369/125

FIELD-OF-SEARCH: 352/1, 352/5, 352/11, 352/26, 352/27, 352/29, 352/37, 369/124, 369/125, 371/36, 371/37.9, 371/64

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

h e b b g e e e f e b e ch e

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3915566	October 1975	Fisher	352/10
3964826	June 1976	Joseph et al.	352/10
3973839	August 1976	Stumpf et al.	352/5
4027958	June 1977	Shigeta et al.	353/26A
4085296	April 1978	Keegan	369/112
4124784	November 1978	Johnson et al.	369/89
4181433	January 1980	Marcuse	356/73.1
4215920	August 1980	Butler	352/92
4355383	October 1982	Dolby	369/120
4491399	January 1985	Bell	352/92
4577302	March 1986	Allen	369/46
4600280	July 1986	Clark	352/37
4603099	July 1986	Drexler	430/140
4691112	September 1987	Wydler	250/570
4758485	July 1988	Drexler	430/12
4827125	May 1989	Goldstein	250/234
4962432	October 1990	Ohtsuka et al.	358/302
5101096	March 1992	Ohyama et al.	235/436
5152295	October 1992	Kobayashi et al.	128/665
5164574	November 1992	Ujiie et al.	235/462
5212583	May 1993	Vali et al.	359/245
5231627	July 1993	Paul et al.	369/125

ART-UNIT: 211

PRIMARY-EXAMINER: Gellner; Michael L.

ASSISTANT-EXAMINER: Lee; Eddie C.

ATTY-AGENT-FIRM: Rogitz; John L.

ABSTRACT:

An analog-digitizer sound system for motion pictures that automatically converts both old and new analog stereo film-sound tracks to digital quality sound. The system eliminates the noise, rumble and hiss from any standard 35 mm analog optical sound track. By simply playing the film through the projector sound head in the normal manner the system automatically converts the analog optical sound tracks to digital format. No special storing of digital data on film is required and no special digital decoder equipment is needed. The system produces noise-free sound, increased frequency response, expanded dynamic range and clarity of dialogue. Film studios will no longer need to maintain a double inventory of digital and analog sound or process sound tracks for noise reduction.

1 Claims, 12 Drawing figures

h e b b g e e e f e b e ch e

☐ 5. Document ID: US 5307415 A

L1: Entry 5 of 6 File: USPT Apr 26, 1994

US-PAT-NO: 5307415
DOCUMENT-IDENTIFIER: US 5307415 A

TITLE: Surround processor with antiphase blending and panorama control circuitry

DATE-ISSUED: April 26, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fosgate; James W.	Heber City	UT	84032	

APPL-NO: 07/ 967446 [PALM]
DATE FILED: October 28, 1992

PARENT-CASE:
This is a divisional of co-pending application Ser. No. 07/533,091 filed on Jun. 8, 1990 now U.S. Pat. No. 5,172,415.

INT-CL: [05] H04R 5/00, H03G 3/00

US-CL-ISSUED: 381/22; 381/27, 381/28, 381/61
US-CL-CURRENT: 381/22; 381/27, 381/28, 381/61

FIELD-OF-SEARCH: 381/22, 381/27, 381/28, 381/61, 381/71

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3632886	January 1972	Scheiber	
3708631	January 1973	Bauer et al.	
3746792	July 1973	Scheiber	
3836715	September 1974	Ito et al.	
3864516	February 1975	Kameoka et al.	
3883692	May 1975	Tsurushima	
3883832	May 1975	Fosgate	
3885099	May 1975	Tsurushima et al.	
3943287	March 1976	Gravereaux et al.	
3944735	March 1976	Willcocks	
3959590	May 1976	Scheiber	
4704728	November 1987	Scheiber	
4891839	January 1990	Scheiber	
4932059	June 1990	Fosgate	

ART-UNIT: 261

h e b b g e e e f e b e ch e

PRIMARY-EXAMINER: Dwyer; James L.

ASSISTANT-EXAMINER: Chiang; Jack

ATTY-AGENT-FIRM: McCombs; David L.

ABSTRACT:

A surround processor includes a time constant processing circuit for smoothing directional information signals from a detector with continuously variable time constants in order to generate one or more control voltage signals. The time constants produced by the circuit are continuously variable and responsive to both the rate of change and the amplitude of the directional information signals, such that as the difference between the controlled voltage signals and the directional information signals increases, the value of the time constants decreases to permit the control voltage signals to closely follow the directional information signals, and as the difference between the control voltage signals and the directional information signals decreases, the value of the time constants increases so that variations in the control voltage signals are smooth. Split-band processing of input audio signals to the processor is also accomplished without the necessity of placing filters directly in the audio path. A low-pass filter is utilized to separate out the low-frequency components of the input signals, and signal-dependent processing occurs with respect to the mid- and upper-frequency components only. Other improvements are also incorporated into the surround processor to optimize its performance.

11 Claims, 19 Drawing figures

☐ 6. Document ID: US 5172415 A

L1: Entry 6 of 6 File: USPT Dec 15, 1992

US-PAT-NO: 5172415
DOCUMENT-IDENTIFIER: US 5172415 A
**** See image for Certificate of Correction ****

TITLE: Surround processor

DATE-ISSUED: December 15, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fosgate; James W.	Heber City	UT	84032	

APPL-NO: 07/ 533091 [PALM]
DATE FILED: June 8, 1990

INT-CL: [05] H04R 5/00, H03G 3/00

US-CL-ISSUED: 381/22; 381/63
US-CL-CURRENT: 381/22; 381/63

h e b b g e e e f e b e ch e

FIELD-OF-SEARCH: 381/22, 381/27, 381/28, 381/61, 381/71

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
3632886	January 1972	Scheiber	
3708631	January 1973	Bauer et al.	
3746792	July 1973	Scheiber	
3836715	September 1974	Ito et al.	
3864516	February 1975	Kameoka et al.	
3883692	May 1975	Tsurushima	
3883832	May 1975	Fosgate	
3885099	May 1975	Tsurushima	381/22
3943287	March 1976	Gravereaux et al.	
3944735	March 1976	Willcocks	
3959590	May 1976	Scheiber	
4704728	November 1987	Scheiber	
4891839	January 1990	Scheiber	
4932059	June 1990	Fosgate	381/22

ART-UNIT: 261

PRIMARY-EXAMINER: Dwyer; James L.

ASSISTANT-EXAMINER: Chiang; Jack

ATTY-AGENT-FIRM: McCombs; David L.

ABSTRACT:

A surround processor includes a time constant processing circuit for smoothing directional information signals from a detector with continuously variable time constants in order to generate one or more control voltage signals. The time constants produced by the circuit are continuously variable and responsive to both the rate of change and the amplitude of the directional information signals, such that as the difference between the controlled voltage signals and the directional information signals increases, the value of the time constants decreases to permit the control voltage signals to closely follow the directional information signals, and as the difference between the control voltage signals and the directional information signals decreases, the value of the time constants increases so that variations in the control voltage signals are smooth. Split-band processing of input audio signals to the processor is also accomplished without the necessity of placing filters directly in the audio path. A low-pass filter is utilized to separate out the low-frequency components of the input signals, and signal-dependent processing occurs with respect to the mid- and upper-frequency components only. Other improvements are also incorporated into the surround processor to optimize its performance.

27 Claims, 19 Drawing figures

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
(surround adj sound) and (separat$3 near2 steer$3)	6

Display Format: FRO Change Format

Previous Page Next Page Go to Doc#

h e b b g e e e f e b e ch e